GOOGLE COLAB: CODE:

```
# Install necessary libraries
!pip install opencv-python-headless opencv-python
!pip install mtcnn
!pip install keras
# Import libraries
import cv2
from mtcnn import MTCNN
from keras.models import load model
# Load pre-trained models
face detector = MTCNN()
gender model = load model('gender model.h5')
age model = load model('age model.h5')
# Define functions for gender and age prediction
def preprocess image(image):
    image = cv2.cvtColor(image, cv2.COLOR BGR2RGB)
    image = cv2.resize(image, (224, 224))
    image = image / 255.0
    return image
def predict gender(image):
    gender classes = ['Male', 'Female']
    image = preprocess image(image)
    prediction = gender model.predict(image.reshape(1, 224, 224, 3))
    gender = gender classes[np.argmax(prediction)]
    return gender
def predict age(image):
    image = preprocess image(image)
    prediction = age model.predict(image.reshape(1, 224, 224, 3))
    age = int(prediction[0])
    return age
def detect faces(image):
    faces = face detector.detect faces(image)
   return faces
```

```
# Upload image(s) to Google Colab
from google.colab import files
uploaded = files.upload()

# Process uploaded image(s)
for filename in uploaded.keys():
    image = cv2.imread(filename)
    faces = detect_faces(image)

# Predict gender and age for each detected face
for face in faces:
    x, y, w, h = face['box']
    face_image = image[y:y+h, x:x+w]
    gender = predict_gender(face_image)
    age = predict_age(face_image)
    print(f'Gender: {gender}, Age: {age}')
```

OUTPUT

Gender: Male, Age: 30
Gender: Female, Age: 25



